

Cobalt Aluminate



Cobalt aluminate is a product specific to the investment casting industry. It is used as a nucleating agent in the investment casting process of superalloys.

Cobalt aluminate is added to the primary slurry and, in this way, it helps to control the surface grain sizing and offers the best nucleating effect.

Typical Material Properties*

Metal Content	Specification	Metal Content	Specification	Metal Content	Specification
Co	40.5 ± 1%	Pb	< 25 ppm	As	< 25 ppm
Na	< 0.3%	Zn	< 50 ppm	Ag	< 5 ppm
Mg	< 0.05%	Sb	< 25 ppm	Se	< 1 ppm
Fe	< 0.04%	Sn	< 25 ppm	Bi	< 1 ppm
Ca	< 0.05%				

Particle Size	Specification
D ₅₀	4.5 ± 0.5 µm

Typical Properties	Specification
pH	8.5-10.5

Particle Size	Specification
CoAl ₂ O ₄	> 99% (wt)
Al ₂ O ₃	< 1% (wt)
Co ₃ O ₄	< 1% (wt)

*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

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PRODUCT DATA SHEET



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